

9/11/03

W1159-01EY

INFORMATION UNDER 37 CFR 1.56(a)

(For Initial Filing)

The following references are submitted as information
to comply with the duty of disclosure under 37 CFR 1.56(a):

References	Disclosed in the specification?		Copy			Translation	
	Yes	No	Enc.	Follow	Please obtain	Enc.	Not available
N.A. 1. JP-A-2001-167040	<input type="radio"/>		<input type="radio"/>			<input type="radio"/> (only abstract)	
N.M. 2. JP-A-2001-337868	<input type="radio"/>		<input type="radio"/>			<input type="radio"/> (only abstract)	
N.P. 3. U.S. Patent application publication US2001/0014956A1	<input type="radio"/>		X				
N.M. 4. JP-A-9-330184		<input type="radio"/>	<input type="radio"/>			<input type="radio"/> (only abstract)	
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FORM PTO-1449 U.S. Department of
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ATTY. DOCKET NO.

SERIAL NO.

500.43116X00

10/659,398

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

APPLICANT
K. SUZUKI, et al

FILING DATE
September 11, 2003

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
N.M.	2 0 1 8 9 8 1 1	10/03	Peeke et al			
N.M.	2 0 1 3 5 5 7 7	7/03	Weber et al			
N.M.	2 0 1 1 7 5 1 7	6/04	Beauchamp et al			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES NO
1 5 0 7 4 6	5/02	Japan			XX

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

N.M.	ESG Product Brief EMC, March 2003, CLARIION with ATA, pp. 1-2.
N.M.	EMC CLARIION Backup Storage Solutions Back-up-to-Disk Guide with LEGATO Networker DiskBackup Option (DBO), Engineering White Paper, 4/8/2003, pp. 1-28.
N.M.	EMC CLARIION Backup Storage Solutions Backup-to-disk Guide with Computer Associates' BrightStor ARCserve Backup, Engineering White Paper, 4/16/2003, pp. 1-24.
N.M.	EMC CLARIION Backup Storage Solutions Backup-to-Disk: An Overview, Engineering White Paper, 3/3/2003, pp. 1-10.
N.M.	EMC CLARIION Backup Storage Solutions Backup-to-Disk Guide with CommVault Galaxy, Engineering White Paper, 3/3/2003, pp. 1-26.
N.M.	EMC CLARIION Backup Storage Solutions Backup-to-Disk Guide with Computer Associates BrightStor Enterprise Backup, Engineering White Paper, 4/16/2003, pp. 1-23.

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N.M.	5 8 1 2 7 5 4	9/98	Lui et al			
N.M.	5 8 2 2 7 8 2	10/98	Humlcek et al			
N.M.	6 4 4 9 7 0 9	9/02	Gates			
N.M.	2 0 0 6 2 3 8 7	5/02	Yatziv			
N.M.	2 0 0 6 2 4 5 4	5/02	Fung			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
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N.M.	1 0 0 1 3 4 5	5/00	European		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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U.S. PATENT DOCUMENTS[illegible]

N.M.

[illegible]

		Serial Attached SCSI and Serial ATA Compatibility, Intel, 2002, pp. 1-8.

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N.M.	6 6 3 6 9 3 4	10/03	Linnell			
	5 9 5 1 6 9 1	09/99	Ng et al			
	6 1 1 5 7 9 7	09/00	Kanda et al			
	6 1 7 3 3 6 0	1/01	Beardsley et al			
	6 5 5 3 4 0 8	4/03	Merrell et al			
	6 6 0 6 6 9 0	8/03	Padovano			
	6 7 7 2 3 6 5	8/04	Obara			
2 0 0 4	0 1 6 2 9 4 0	8/04	Yagisawa et al			
2 0 0 3	0 2 2 1 0 6 1	11/03	El-Batal			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
0 8 4 4 5 6 1	5/98	European			YES

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N.M.	6 1 0 8 7 4 8	08/00	Ofek et al			
	6 5 1 0 4 9 1	1/03	Franklin et al			
	6 6 5 1 1 3 7	11/03	Baek et al			
	6 7 0 8 2 3 2	03/04	Obara et al			
	5 5 4 6 5 5 8	8/96	Jacobson et al			

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1 3 1 5 0 7 4	5/03	European			

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N.M.	2 0 0 4	0	1	9	3	7	6	0	9/04	Matsunami et al			
N.M.	2 0 0 4	0	1	9	9	5	1	5	10/04	Penny et al			
N.M.	2 0 0 2	0	1	3	8	7	0	5	9/02	Suzuki et al			
N.M.	2 0 0 3	0	2	2	1	0	7	7	11/03	Ohno et al			
N.M.	2 0 0 4	0	0	1	0	6	6	2	1/04	Aruga			

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N.M.	2 0 0 4	0	1	2	8	6	2	7	7/04	Zayas			
N.M.	2 0 0 3	0	0	9	7	6	0	7	5/03	Bessire			
N.M.	2 0 0 4	0	0	1	0	6	6	0	1/04	Konshak et al			
N.M.	2 0 0 4	0	0	7	8	7	0	7	4/04	Apperley et al			
N.M.	2 0 0 4	0	0	7	3	7	4	7	4/04	Lu			
N.M.	2 0 0 4	0	1	7	7	2	1	8	9/04	Meehan et al			

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N.M.	5 6 0 3 0 0 3	2/97	Akizawa et al			
	5 8 3 8 8 9 1	11/98	Mizuno et al			
	5 8 6 7 7 3 6	2/99	Jantz			
	5 8 8 4 0 9 8	3/99	Mason, Jr.			
	6 2 1 9 7 5 2	4/01	Sekido			
	6 2 2 3 2 4 9	4/01	Kato et al			
	6 5 4 9 9 7 8	5/03	Mansur et al			
	6 6 4 0 2 7 8	10/03	Nolan et al			
	6 6 8 4 2 9 5	1/04	Fujimoto et al			
	6 7 4 5 2 8 7	6/04	Fujimoto et al			
	6 2 0 1 6 9 2	3/01	Gamble et al			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT YES
N.M.	2 3 3 3 9 5 4	11/02	Japan			
N.M.	2 1 7 8 5 5 7	6/04	Japan			

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N.M.	6 6 2 8 5 1 3	9/03	Gallagher et al			
	6 8 3 1 8 3 9	12/04	Bovell			
	6 0 6 1 7 5 0	5/00	Beardsley et al			
	6 7 6 3 4 3 6	7/04	Gabber et al			
	6 7 9 2 4 8 6	9/04	Hanan et al			
	6 1 3 7 6 7 9	10/00	Chang			
	6 3 5 1 3 7 5	2/02	Hsieh et al			
	6 4 8 4 2 3 6	11/02	Fujimoto et al			
	6 4 8 4 2 6 9	11/02	Kopylovitz			
	6 7 2 8 9 2 2	4/04	Sundaram et al			
	5 4 7 5 8 1 4	12/95	Tomimitsu			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT YES
0 2 1 8 8 3 5		Japan			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

N.M.	IBM Technical Disclosure Bulletin vol. 38, No. 7, July 1995 (New York), "Foreground/Background Checking of Parity in a Redundant Array of Independent Disks-5 Storage Subsystem", pp. 455-458.
N.M.	Laboratory Automation and Information Management 32, 1996, (Elsevier Science B.V.), R E Dessey, "Computer Connections", pp. 53-62.

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	APPLICANT K. SUZUKI, et al	
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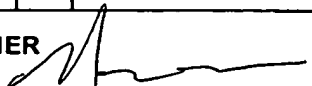
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		6	1	5	4	8	5	0	11/00	Idleman et al			
		6	4	0	0	7	3	0	6/02	Latif, et al			

FOREIGN PATENT DOCUMENTS

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N.M.	2 0 0 1	1	4	2	6	5	0		5/01	Japan			

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N.M.	2 0 0 3	0	0	9	7	5	0	4	5/03	Oeda et al			
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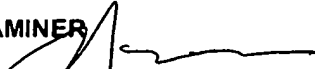
U.S. PATENT DOCUMENTS

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	2 0 0 6 8 6 1 0	4/04	Umberger et al			
	2 0 1 0 7 3 2 5	6/04	Mori			

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N.M.	2 0 0 1	0	0	4	6	1	1	8	11/01	Yamanashi et al			
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	2 0 0 1	0	0	5	6	5	2	7	12/01	Ninomiya et al			
	2 0 0 2	0	1	6	2	0	5	7	10/02	Talagala			
	2 0 0 3	0	0	4	1	2	0	1	2/03	Rauscher			
	2 0 0 3	0	1	7	2	1	5	0	9/03	Kennedy			
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N.M.	2 0 0 3	0	2	2	1	0	6	1	11/03	El-Batal et al			
	2 0 0 3	0	0	4	1	2	7	8	2/03	Lin			
	2 0 0 4	0	1	1	1	5	6	0	6/04	Takase et al			
	2 0 0 4	0	2	6	7	5	1	6	12/04	Jibbe et al			
	2 0 0 5	0	0	2	7	9	0	0	2/05	Petty			

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<i>d. H.</i>	2 0 0 3	0	2	3	1	4	2	0	12/03	Kano et al			
	2 0 0 4	0	0	8	8	4	8	2	5/04	Tanzer et al			
	2 0 0 4	0	1	6	9	9	9	6	9/04	Paul et al			
	2 0 0 1	0	0	1	9	5	0	9	9/01	Aho et al			
	2 0 0 3	0	0	4	6	4	6	0	3/03	Inoue et al			
	2 0 0 4	0	1	3	9	2	6	0	7/04	Steinmetz			
<i>g</i>	2 0 0 4	0	1	4	8	3	2	9	7/04	Ogasawara et al			

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	2 0 0 3	0	0	9	7	4	8	7	5/03	Rietze et al			
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	2 0 0 4	0	2	6	8	0	6	9	12/04	Satoyama et al			

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	6 7 7 2 2 8 7	8/04	Uchiyama et al			
	6 6 8 4 2 8 2	1/04	Kocis			
2 0 0 3	0 1 8 2 5 0 2	9/03	Kleiman et al			
2 0 0 2	0 0 1 9 8 9 7	2/02	Cruyningen			
2 0 0 4	0 2 4 3 3 8 6	12/04	Stolowitz et al			

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<i>[Signature]</i>	03/08/06

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(Form PTO-1449 [6-4])

FORM PTO-1449 U.S. Department of
Commerce Patent and Trademark Office

ATTY. DOCKET NO.

500.43116X00

SERIAL NO.

10/659,398

**INFORMATION DISCLOSURE
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(Use several sheets if necessary)

APPLICANT
K. SUZUKI, et al

FILING DATE
September 11, 2003

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING D. IF APPROP
N.M.	2 0 0 3	0	2	1	2	8	5	9	11/03	Ellis			
	2 0 0 4	0	1	4	8	4	6	0	7/04	Steinmetz			
	2 0 0 4	0	1	4	8	4	6	1	7/04	Steinmetz			
	2 0 0 4	0	2	3	6	9	0	8	11/04	Suzuki et al			
	2 0 0 3	0	1	1	0	3	3	0	6/03	Fujie et al			
		5	8	4	5	3	1	9	12/98	Yorimitsu			
✓	2 0 0 3	0	1	4	9	8	4	0	8/03	Bolt, et al			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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N.M.	2 0 0 2	0	1	4	4	0	4	8	10/02	Bolt, et al			
	2 0 0 2	0	1	4	7	9	4	5	10/02	Fox et al			
	2 0 0 4	0	1	5	3	6	1	4	5/04	Bitner et al			
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		5	8	3	2	2	0	4	11/98	Apperley et al			
		6	2	4	0	4	8	6	5/01	Ofek et al			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRA YES
N.M.		5	1	5	0	9	0	9	6/93	Japan			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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N.M.		6	4	4	9	7	0	9	09/02	Gates			
		6	6	8	4	2	9	5	1/04	Fujimoto et al			
		6	7	4	5	2	8	7	6/04	Fujimoto et al			
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	2 0 0 3	0	2	2	1	0	6	1	11/03	El-Batal et al			
	2 0 0 3	0	0	4	1	2	7	8	2/03	Lin			
	2 0 0 4	0	0	7	8	7	0	7	04/04	Apperley et al			
	2 0 0 4	0	0	1	0	6	6	0	1/04	Konshak			

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N.M.	2 0 0 4	0	1	1	1	5	6	0		Takase et al			
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	2 0 0 5	0	0	2	7	9	0	0		Petty			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT YES
N.M.	2 0 0 2	1	5	0	7	4	6		05/02	Japan			
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

N.M.	EMC 2-Gigabit Disk-Array Enclosure EMC Corporation (DAE2), FC and ATA Models, Hardware Reference P/N 014003048, Rev A02
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A circular black ink stamp from the Office of Intellectual Property (OIPE). The text "OIPE" is at the top, "JUL 25 2005" is in the center, and "PATENT & TRADEMARK OFFICE" is at the bottom. The stamp is slightly tilted.

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[illegible]

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U.S. PATENT DOCUMENTS

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N.M.	2005 0117468	06/05	Kano et al			
	2005 0120263	06/05	Kano et al			
	2005 0120264	06/05	Kano et al			
	2005 0154942	7/05	Kano et al			
	6282602	8/01	Blumenau et al			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
					YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

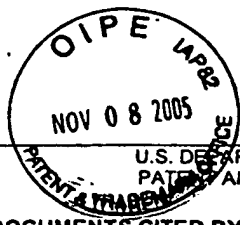
EXAMINER

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PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
500-43116X00SERIAL NO.
10/659,398LIST OF DOCUMENTS CITED BY APPLICANT
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K. SUZUKI, et alFILING DATE
September 11, 2003

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT	DATE	NAME	CLASS	SUBCLASS	FILING DATE (If Appropriate)
N.M.	AA	2002/ 0069317	06/06/02	Chow et al			
	AB	2002/ 0069334	6/06/02	Hsia et al			
	AC	2003/ 0031187	02/13/03	Heffernan et al			
	AD	2003/ 00221061	11/27/03	El-Batal et al			
	AE	2004/ 0010660	01/15/04	Konshak et al			
	AF	2004/ 0034731	02/19/04	Sivertsen			
	AG	2004/ 0193791	09/30/04	Felton et al			
	AH	2004/ 0148460	07/29/04	Steinmetz et al			
	AI	6,834,326	12/21/04	Wang et al			
	AJ	2005/ 0097132	05/05/05	Cochran et al			
	AK	2005/ 0138154	06/23/05	Seto			

FOREIGN PATENT DOCUMENTS

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	AO						<input type="checkbox"/>	<input type="checkbox"/>
	AP						<input type="checkbox"/>	<input type="checkbox"/>

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

N.M.	AR	SGI InfiniteStorage TP9300S Storage Array, Data Sheet, available at: http://www.sgi.com/pdfs/3643.pdf
	AS	Adaptec FS4500 Fibre to SATA RAID, Data Sheet, available at: http://www.sunstarco.com/PDF%20Files/Adaptec%20FS4500%20SATA.pdf
	AT	Infotrend EonStor A16F-R1211/S1211 FC-to-SATA RAID Subsystem product information, available at: http://www.infotrend.com/2_product/a16f-r(s)1211.asp

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LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT K. SUZUKI, et al	
		FILING DATE September 11, 2003	GROUP

U.S. PATENT DOCUMENTS

* EXAMINER INITIAL		DOCUMENT	DATE	NAME	CLASS	SUBCLASS	FILING DATE (If Appropriate)
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	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
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FOREIGN PATENT DOCUMENTS

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

N.M.	AR	Synetic Inc., SyneRAID -800SA, SCSI/Fibre-to-SATA RAID Subsystem product information, available at:
		http://www.synetic.net/Synetic-Products/SyneRAID-Units/SyneRAID-800SATA/SyneRAID-800SA.html
N.M.	AS	"SATA Disk System and Expansion of Unit offer 3.5 TB storage",
		Product News Network, Nov. 1, 2004.
	AT	

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Sheet 1 of 1

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		FILING DATE September 11, 2003	GROUP 2187

U.S. PATENT DOCUMENTS

* EXAMINER INITIAL	DOCUMENT	DATE	NAME	CLASS	SUBCLASS	FILING DATE (If Appropriate)
N.M.	AA 6,763,409	07/13/04	Elliott, Stephen J.			
	AB 5,812,754	09/22/98	Liu et al			
	AC 5,432,046	06/06/95	Nunnelley et al			
	AD 5,848,282	12/08/98	Kang et al			
	AE 2002/ 062454	05/23/02	Fung, Henry T.			
	AF 5,805,788	09/08/98	Johnson			
	AG 2004/ 0221101	11/04/04	Voorhees et al			
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	AI					
	AJ					
	AK					

FOREIGN PATENT DOCUMENTS

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N.M.	AM 0795824	09/17/97	EP			<input type="checkbox"/>	<input type="checkbox"/>
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	AO					<input type="checkbox"/>	<input type="checkbox"/>
	AP					<input type="checkbox"/>	<input type="checkbox"/>

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

N.M.	AR	Judd, Ian, "Device Services Interface", Online, June 19, 1996, pp. 1-8.
N.M.	AS	"Veritas Volume Manager Storage Administrator 3.2, Administrator's Guide", Veritas Software Corporation, Online, July, 2001, pp. 1-184.
	AT	

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